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promptly produced poisonous effects. But upon the higher animals, no such effect resulted.

Some of the results recorded seem very strange as compared with others, and we shall verify and extend the experiments as soon as a supply of the leaves can be obtained. Should it be found that their destructive effect extends to the lowest forms of vegetable life, it may prove that we at last have an agent of defense against not only insect pests and parasitical diseases of plants, but against some of the sporadic human diseases.

H. H. R.

Index to Recent American Botanical Literature.

Amelanchier alnifolia, Nutt.—S. Watson. (Garden and Forest, i., 185, fig. 34.)

Anthurium Chamberlaini, Mast. n. sp. (Gard. Chron., iii., 462, fig. 67.) This is a new species from Venezuela.

Asimina triloba. (Garden, xxxiii., 321, illustrated.)

Bald Cypress.—*How it converts Lakes into Forests*.—A. H. Curtiss. (Garden and Forest, i., 123.)

Brodiaea Bridgesii.—Serenio Watson. (Garden and Forest, i., 125, fig. 24.)

Bulletin from the Botanical Department of the State Agricultural College, Ames, Iowa.—Byron D. Halsted. (Pamph., 8vo. pp. 118, four plates, 1888.)

This second of Professor Halsted's bulletins contains detailed accounts of the work accomplished at Ames in 1887. Some of the papers have appeared in other publications. Among those here first printed we note "Preliminary List of the Weeds of Iowa," containing 297 species; "Oil glands on the Anthers of Cucurbitaceous Plants," "Observations on *Oxalis*" a study of dimorphism in the common species, "Notes on Pollen" of numerous plants, "A Provisional List of Fungi," a "List of California Parasitic Fungi," observed by Professor Halsted, and numerous short notes of interest and importance.

Calycanthus floridus and *C. occidentalis*. (Garden, xxxiii., 392, illustrated.)

Camassia Cusickii.—Serenio Watson. (Garden and Forest, i., 172, fig. 32.)

Cassandra calyculata. (Garden, xxxiii., 392, illustrated.)

Castalia Leibergeri.—*A new Water-lily*.—Thos. Morong. (Bot. Gaz., xiii., 124-125, one plate.)

A small pond in Northern Idaho yields this interesting plant, the only species of its genus as yet detected in West America.

Catalpa bignonioides. (Garden, xxxiii., 393, illustrated.)

Celastrus scandens. (Garden, xxxiii., 393, illustrated.)

Contributions to American Botany—XV.—Serenio Watson. (Proc. Amer. Acad. Arts and Sciences, xxiii., 249-287; reprinted.)

Dr. Watson's latest contribution contains (I.) Some new species of plants of the United States with revisions of *Lesquerella* (*Vesicaria*), and of the North American species of *Draba*, the proposed new genus to include all the American plants hitherto referred to *Vesicaria* with the *Alyssum Lescurii*, Gray, 33 species being recognized, several here first described. Of *Draba* we have 32 species, *D. Breweri* and *D. subsessilis* being additions to the previous lists; *D. arabisans*, Michx., is reduced to a variety of *D. incana*, L., and several other changes in nomenclature are made. Descriptions are given of the following new species: *Cheiranthus occidentalis*; *Caulanthus Lemmoni*; *Silene Luisana*; *Calandrinia Howellii*; *Sidalcea Hendersoni*; *Trifolium Howellii*; *Astragalus sylvaticus*; *Lathyrus cinctus*; *Ivesia Shockleyi*; *Pyrus occidentalis*; *Saxifraga occidentalis*; *Hartwrightia Floridana*, Gray, a new genus and species in Compositæ; *Pentstemon Shockleyi*; *Eriogonum pendulum*; *E. citharæforme*; *Tillandsia Wilsoni*; *Brodiaea Hendersoni*; *Calochortus Howellii* and *Juncus Oreganus*. (II.) Some new species of Mexican plants, chiefly of Mr. C. G. Pringle's collection in the mountains of Chihuahua in 1887, in which a large number of novelties are characterized, among them *Prionosciadium*, a new genus of Umbelliferae with three species. (III.) Descriptions of some plants of Guatemala, mainly from Dr. Watson's collections in 1885, containing *Louteridium*, a new genus in Acanthaceae, and a number of orchids described from specimens which have flowered at Cambridge.

Cypripedium fasciculatum, Kell. (Gard. and Forest, i., 90, fig. 16.)

Delphinium viride.—Serenio Watson. (Garden and Forest, i., 149, fig. 29.)

Douglasia lævigata. (Gard. Chron., iii., 524, fig. 71.)

Epigæa repens. (Garden and Forest, i., 154.)

Contrary to the experience of almost everyone who has attempted to transplant this unwilling emigrant, it has been successfully grown at the Arboretum at Brookline. Much pains were taken to establish it.

Erysipheæ and Peronosporæ.—*Notes on Western*—S. M. Tracy and B. T. Galloway. (Journ. Mycol., iv., 33–36.)

Erythronium albidiflorum and *E. Hendersonii*, Watson. (Gard. Chron., iii., 556–652, figs. 74, 86.)

Etudes sur le Péristome, VII.—Philibert. (Rev. Bryol. xv., 37–44.)

This includes comparative studies in homologous parts of the inner peristome and its variations in *Cinclidium* and *Fontinalis*.

Euphorbia Jacquinæflora. (Garden, xxxiii., 486, plate 650.)

Evolution in the Plant Kingdom.—John M. Coulter. (Amer. Nat., xxii., 322–335.)

Ficus aurea—*The wild fig-tree of Florida*.—C. S. S. (Garden and Forest, i., 128, illustrated.)

Flora of Bergen County, N. J.—*Notes on the*—Willard A. Stowell. (Journ. Trenton Nat. His. Soc., i., 345–347.) A brief account of some rarer plants of the region.

Flora of Milwaukee County.—W. M. Wheeler. (Proc. Nat. Hist. Soc. Wisconsin, 1888, 154–190.) A list of 691 species of Anthophyta and Pteridophyta, with localities.

Flora Ottawaensis. (Ottawa Nat., May, 1888.)

The additions made during 1887 number twenty-four species and include eight of mosses, three of which have been heretofore undescribed; *Leskea nigrescens*, *Pylaisia Selwyni*, and *Homalothecium corticola*, named by Kindberg.

Florule de l'Île Miquelon, par Dr. E. Delamare, F. Renaud, J. Cardot. (Pamphlet, 8vo., 79 pp. Lyons, 1888.)

The collections on which these lists are based were made by Dr. E. Delamare, including Phanerogams, Vascular Cryptogams, Mosses, Sphagnum, Hepatics and Lichens, with a short list of Algæ. The list is not a bare enumeration, but includes descriptive notes and comments, is written in a pleasant style and records some interesting comparisons in geographical distribution. Among the notable plants the authors record *Schizæa*

pusilla, though unfortunately without any exact notes as to locality. This may be based on De LaPylaie's specimen, though no mention is made of the fact.

Fungi from various Localities—New species of—J. B. Ellis and B. M. Everhart. (Journ. Mycol., iv., 44-46.) 15 species described.

Gesnera longiflora. (Garden, xxxiii., 340, plate 644.)

Heliconia Choconiana.—Serenio Watson. (Garden and Forest, i., 161, fig. 31.)

Hepaticæ from California.—*Some undescribed*.—Lucien M. Underwood. (Bot. Gazette, xiii., 112-114, four plates.) Description of three new species and a new variety of *Fungermania* and of *Grimaldia Californica*, from the manuscript of Dr. Gottsche, all collected by Mr. Bolander.

Hepaticæ Paraguayensis, Balansa lectæ, R. Spruce determinatæ.—R. Spruce. (Rev. Bryol., xv., 34.)

This includes thirteen new species of *Frullania*, *Lejeunia*, *Radula*, *Aneura*, *Metzgeria*, *Riccia* and *Anthoceros*.

Hepaticæ in Prov. Rio Janeiro a Glazion lectæ, a R. Spruce determinatæ.—R. Spruce. (Rev. Bryol., xv., 33.)

Fifteen new species and thirty-three others with varieties are enumerated.

Heterosporum Ornithogalli. (Gard. Chron., iii., 659, fig. 88.)

This fungus attacks the bulbs of *Ornithogallum nutans* and may be looked for on *O. umbellatum*.

Heuchera sanguinea in Mexico.—C. G. Pringle. (Garden and Forest, i., 152.)

Hypoxylon and Nummularia—Synopsis of North American Species of.—J. B. Ellis and B. M. Everhart. (Journ. Mycol., iv., 38-44.)

James Bay—Notes on the Flora of.—James M. Macoun. (Bot. Gazette, xiii., 115-118.)

Leersia and Muhlenbergia—Rootstocks of.—W. J. Beal. (Am. Nat., xxii., 351, 352, Plate IV.)

A comparison of these structures in the several species.

List of Diatoms from Granville, Ohio.—J. L. Deming. (Bull. Sci. Lab. Denison Univ., iii., 114, 115.)

List of Plants in the Vicinity of Utica, for April, May and a

portion of June.—J. V. Haberer. (Pamph., 8vo., 20, 1888.)

A neatly printed paper, published by the Asa Gray Botanical Club. Localities and habitats of the species enumerated are given and special attention devoted to the time of blooming.

Lobelia syphilitica—*Cross-fertilization of.*—C. L. Payne. (Bull. Sci. Lab. Denison Univ., iii., 111-113.)

Mildews of Illinois—Some.—L. H. Pammel. (Journ. Mycol., iv., 36-38.)

Selaginella Pringlei, Baker.—C. G. Pringle. (Garden and Forest, i., 185.)

This is as much a resurrection plant as *S. leptophylla*, and is recommended for planting on rock-work.

Taxodium distichum—*Knaur on.* (Gard. Chron., iii., 560, fig. 77.)

Tecoma radicans and *Bignonia capreolata*. (Garden, xxxiii., 348; illustrated.)

Ulota Phyllantha, Brid., *La fructification de.*—F. Renauld, J. Cardot. (Revue Bryologique, xv., 36.)

These bryologists have examined and described the fructification of this moss from specimens collected by Thomas Howell in Oregon, identical with ours. I much regret to state that I wrote to J. Cardot in March, calling his attention to my discovery of the fruit, and received a letter from him dated April 3d, acknowledging the interest of the discovery; therefore I claim priority by several months, having illustrations and description ready for publication before this number of the Revue Bryologique was received.*

E. G. BRITTON.

Urceolina pendula. (Garden, xxxiii., 436, Plate 648.)

This handsome Amaryllidaceous plant was discovered by Mr. Pearce in Peru in 1863.

Violets of British Columbia.—M. Lopatecki. (W. Amer. Sci., iv., 38.) A list of forms observed, with localities.

Willows, Notes on North American, with a Description of New or Imperfectly Known Species, I.—M. S. Bebb. (Bot. Gazette, iii., 109-112.) *Salix commutata*, with three varieties, and *S. denudata* are new species from the Pacific Coast.

Yucca filamentosa. (Garden, xxxiii., 333; illustrated.)

*See this volume, p. 176.